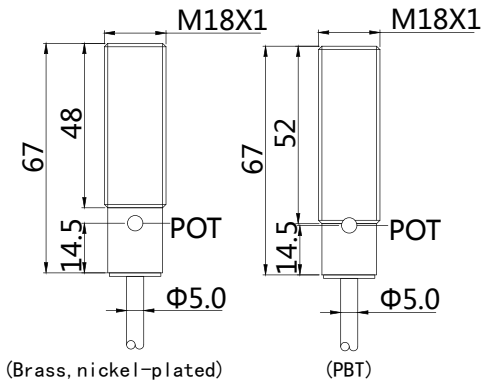
Features:

- 100mm,Background suppression,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/brass,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

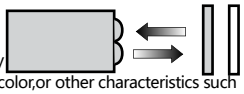
Dimensioned drawing



Model No.

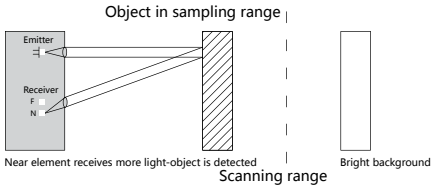
Housing material	PBT	Brass,nickel-plated
NPN Light/Dark-on	FM18-H01N-P31P2	FM18-H01N-C31P2
PNP Light/Dark-on	FM18-H01P-P31P2	FM18-H01P-C31P2

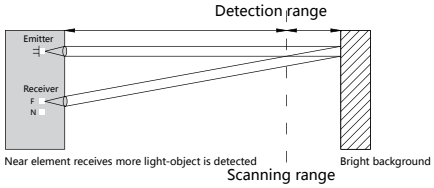
Background suppression



Background suppression sensors were developed to reach a defined detection range for any object,regardless of its brightness,color,or other characteristics such as the brightness of the background.The following figure illustrates the functional principle of a background suppression sensor.The light emitted by the emitter is directed by the lens and hits the object.If the boject is located within the detection range,a portion of the reflected light,bundled by the receiver lens,is mapped to th

As the object’ s distance increases,this light spot moves in the direction of the far element(F).At the detection range limit,one half of the light spot is on the near element,the other on the far element and the sensor registers” off” .IF the object moves further away,the light only hits the far element and the sensor still registers” off” .

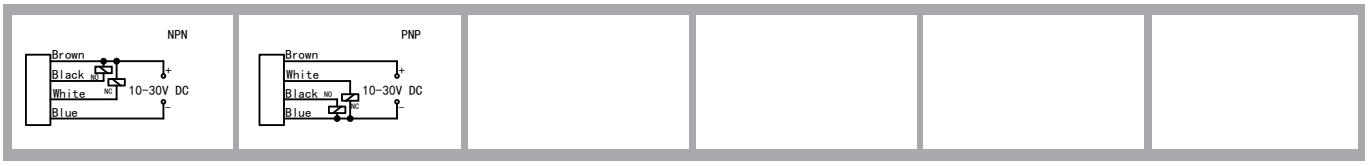




Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz
	Light type	Red light 624nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<1cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring

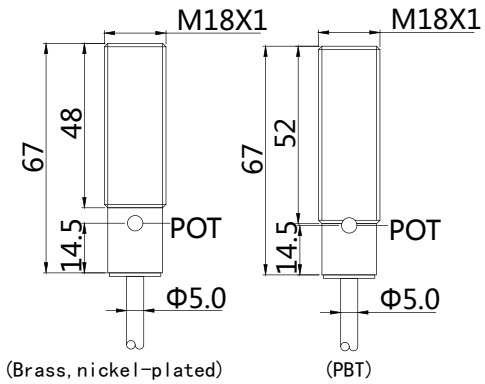


Features:

- 100mm,Background suppression,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/brass,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

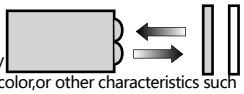
Dimensioned drawing



Model No.

Housing material	PBT	Brass,nickel-plated
NPN Light/Dark-on	FM18-H01N-P31S12	FM18-H01N-C31S12
PNP Light/Dark-on	FM18-H01P-P31S12	FM18-H01P-C31S12

Background suppression



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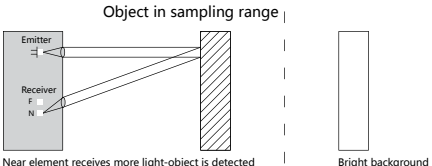
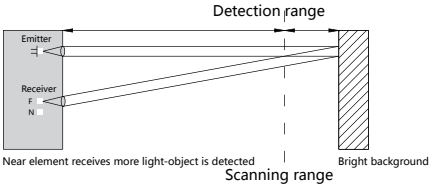
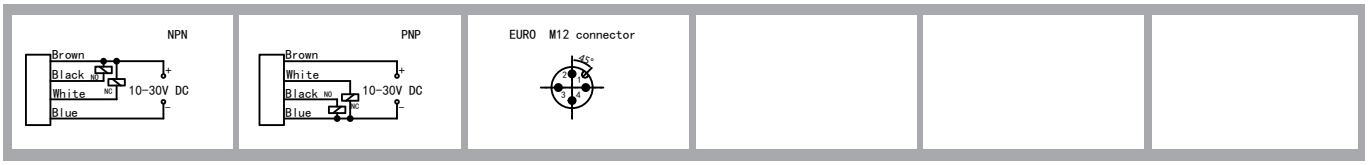




Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	1000Hz
	Light type	Red light 624nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<1cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring

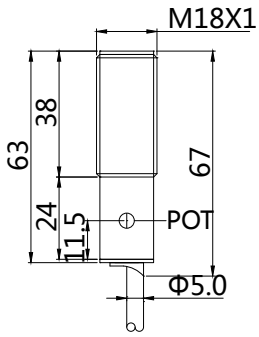


Features:

- Diffuse type,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



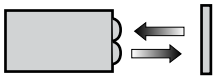
Model No.

Sensing range	Sn: 150 mm	Sn: 150 mm
Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-T015N-P31P2-E	FM18-T015N-C31P2-E
PNP Light/Dark-on	FM18-T015P-P31P2-E	FM18-T015P-C31P2-E

Sensing range	Sn: 500 mm	Sn: 500 mm
Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-T05N-P31P2-E	FM18-T05N-C31P2-E
PNP Light/Dark-on	FM18-T05P-P31P2-E	FM18-T05P-C31P2-E

Background suppression

Diffuse type sensors

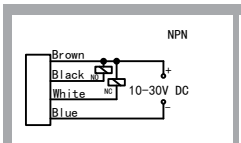


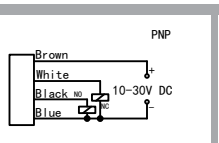
Diffuse reflection type photoelectric sensorprinciple and the principle of mirror reflection type photoelectric sensor is the same,butit doesn’ t take reflective lenses,The light emittedby the transmitter directly sendingback receiver bythe analyte.Receiver estimate dtection of objects reflected back to the lightrays,the positioning of bojects is not very strict Whenobject under test enterinto effective light rays area,output state changes.The detection rangedepends on object under test size,shape,color and surface properties.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring



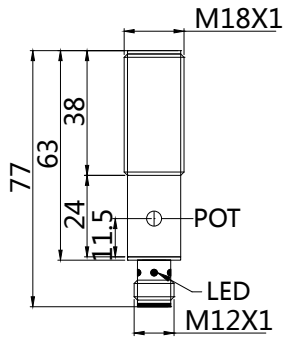


Features:

- Diffuse type,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



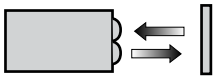
Model No.

Sensing range	Sn: 150 mm	Sn: 150 mm
Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-T015N-P31S12-E	FM18-T015N-C31S12-E
PNP Light/Dark-on	FM18-T015P-P31S12-E	FM18-T015P-C31S12-E

Sensing range	Sn: 500 mm	Sn: 500 mm
Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-T05N-P31S12-E	FM18-T05N-C31S12-E
PNP Light/Dark-on	FM18-T05P-P31S12-E	FM18-T05P-C31S12-E

Background suppression

Diffuse type sensors



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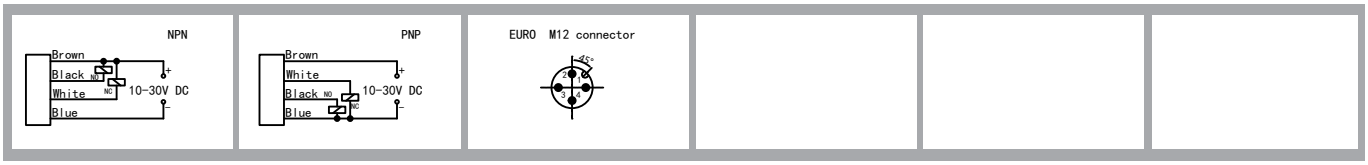
Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring

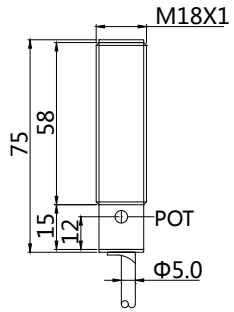


Features:

- Diffuse type,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



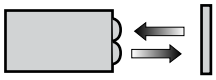
Model No.

Sensing range	Sn: 150 mm	Sn: 150 mm
Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-T015A-P14P2	FM18-T015A-C14P2
Light/Dark-on	FM18-T015A-P24P2	FM18-T015A-C24P2

Sensing range	Sn: 500 mm	Sn: 500 mm
Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-T05A-P14P2	FM18-T05A-C14P2
Light/Dark-on	FM18-T05A-P24P2	FM18-T05A-C24P2

Background suppression

Diffuse type sensors



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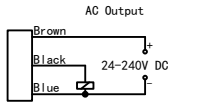
Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	25Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;3*0.35mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring

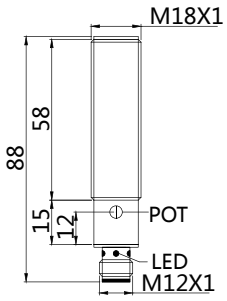


Features:

- Diffuse type,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



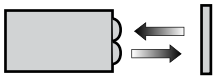
Model No.

Sensing range	Sn: 150 mm	Sn: 150 mm
Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-T015A-P14S12	FM18-T015A-C14S12
Light/Dark-on	FM18-T015A-P24S12	FM18-T015A-C24S12

Sensing range	Sn: 500 mm	Sn: 500 mm
Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-T05A-P14S12	FM18-T05A-C14S12
Light/Dark-on	FM18-T05A-P24S12	FM18-T05A-C24S12

Background suppression

Diffuse type sensors



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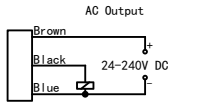
Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	25Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring

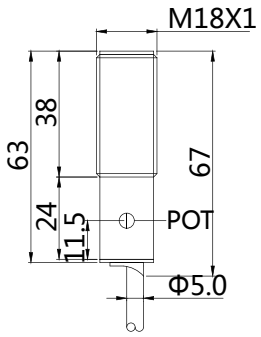


Features:

- Diffuse type,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing

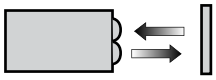


Model No.

Sensing range	Sn: 100 mm	Sn: 100 mm
Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-T01N-P31P2-D	FM18-T01N-C31P2-D
PNP Light/Dark-on	FM18-T01P-P31P2-D	FM18-T01P-C31P2-D

Background suppression

Diffuse type sensors



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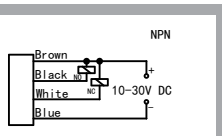
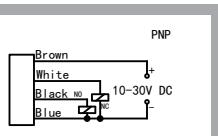
Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring



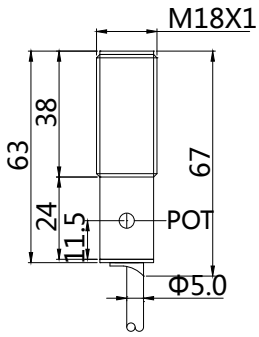


Features:

- Retro-reflective,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing

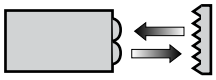


Model No.

Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-R3N-P31P2-E	FM18-R3N-C31P2-E
PNP Light/Dark-on	FM18-R3P-P31P2-E	FM18-R3P-C31P2-E

Background suppression

Retro-reflective sensors



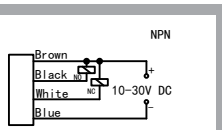
Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back to the receiver.

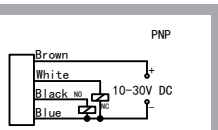
When the beam is occlusion,generate a switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<10cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;4*0.25mm²
Accessories	Accessories	FR-Q51
	(to be ordered separately)	

Wiring



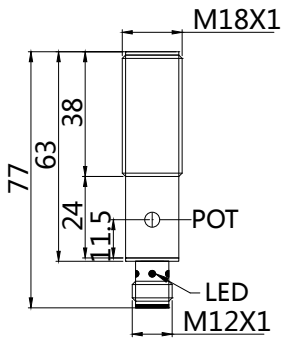


Features:

- Retro-reflective,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing

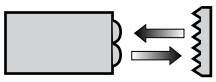


Model No.

Housing material	PBT	Brass, nickel-plated
NPN Light/Dark-on	FM18-R3N-P31S12-E	FM18-R3N-C31S12-E
PNP Light/Dark-on	FM18-R3P-P31S12-E	FM18-R3P-C31S12-E

Background suppression

Retro-reflective sensors



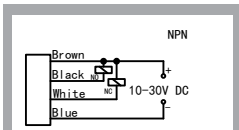
Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back to the receiver.

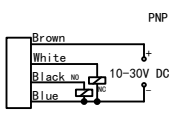
When the beam is occlusion,generate a switch changes.

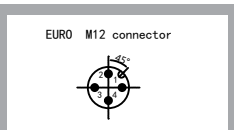
Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<10cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2/FR-Q51
	(to be ordered separately)	

Wiring





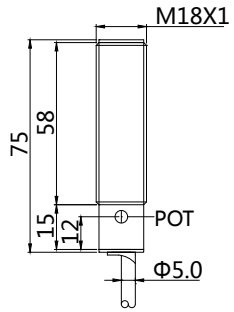


Features:

- Retro-reflective,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing

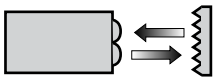


Model No.

Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-R3A-P14P2	FM18-R3A-C14P2
Light/Dark-on	FM18-R3A-P24P2	FM18-R3A-C24P2

Background suppression

Retro-reflective sensors



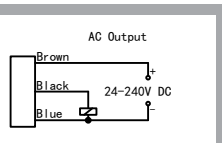
Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back to the receiver.

When the beam is occlusion,generate a switch changes.

Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	25Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<10cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;3*0.35mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring

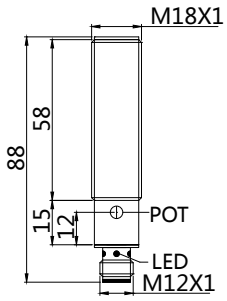


Features:

- Retro-reflective,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing

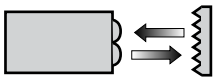


Model No.

Housing material	PBT	Brass, nickel-plated
Light/Dark-on	FM18-R3A-P14S12	FM18-R3A-C14S12
Light/Dark-on	FM18-R3A-P24S12	FM18-R3A-C24S12

Background suppression

Retro-reflective sensors



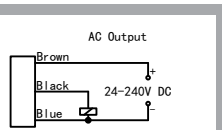
Retro-reflective sensor put transmitter andreceiver encapsulated into same shel,in the opposite install aspeculum,the light emitted by the reflector is reflected therough the reflector back to the receiver.

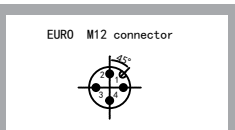
When the beam is occlusion,generate a switch changes.

Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	25Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
	Blind distance	<10cm
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2/FR-Q51
	(to be ordered separately)	

Wiring



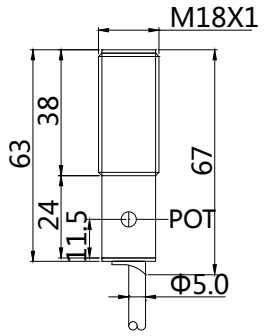


Features:

- Through-beam,Emitter/receiver set,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



Model No.

Housing material	PBT	Brass, nickel-plated
Transmitter	FM18-L15MD-P51P2-E	FM18-L15MD-C51P2-E
NPN Light/Dark-on	FM18-L15MN-P31P2-E	FM18-L15MN-C31P2-E
PNP Light/Dark-on	FM18-L15MP-P31P2-E	FM18-L15MP-C31P2-E

Background suppression

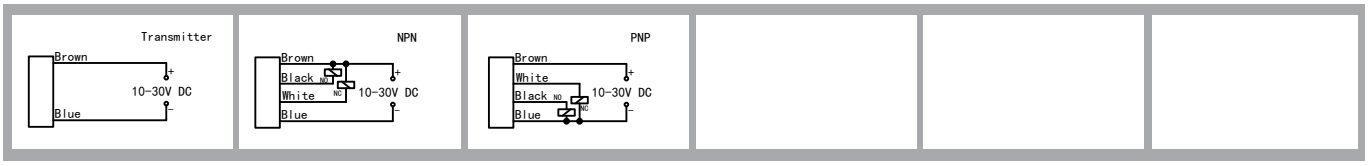
Through-beam sensors

Through-beam photoelectric sensors has independent transmitters and receivers,structure two are separated from each other,the emitter(E)directly transmitted to the receiver(R).At the time of installation,must be bothaligned establish light path. No matter any objectblocking the light,the voltage of the receiver drops,switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;2*0.5mm²/4*0.25mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring

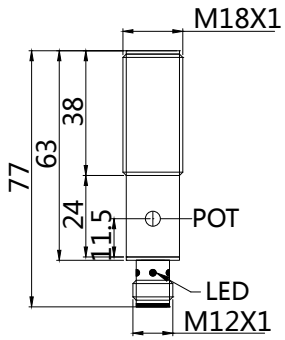


Features:

- Through-beam,Emitter/receiver set,DC4-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



Model No.

Housing material	PBT	Brass, nickel-plated
Transmitter	FM18-L15MD-P51S12-E	FM18-L15MD-C51S12-E
NPN Light/Dark-on	FM18-L15MN-P31S12-E	FM18-L15MN-C3S12-E
PNP Light/Dark-on	FM18-L15MP-P31S12-E	FM18-L15MP-C31S12-E

Background suppression

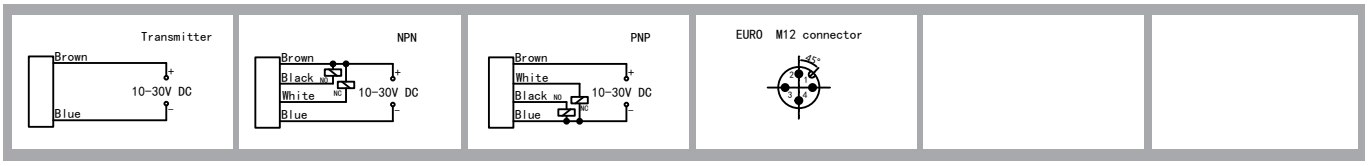
Through-beam sensors

Through-beam photoelectric sensors has independent transmitters and receivers,structure two are separated from each other,the emitter(E)directly transmitted to the receiver(R).At the time of installation,must be bothaligned establish light path. No matter any objectblocking the light,the voltage of the receiver drops,switch changes.

Technical data

Electrical data	Operating voltage	10-30V DC
	Switching frequency	500Hz
	Light type	Infrared light 880nm
	Response time	<2ms
	Load current	200mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring

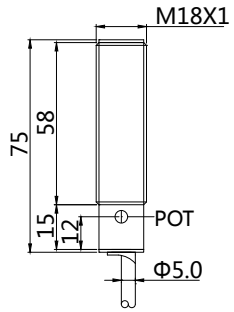


Features:

- Through-beam,Emitter/receiver set,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



Model No.

Housing material	PBT	Brass, nickel-plated
Transmitter	FM18-L15MD-P54P2	FM18-L15MD-C54P2
Light/Dark-on	FM18-L15MA-P14P2	FM18-L15MA-C14P2
Light/Dark-on	FM18-L15MA-P24P2	FM18-L15MA-C24P2

Background suppression

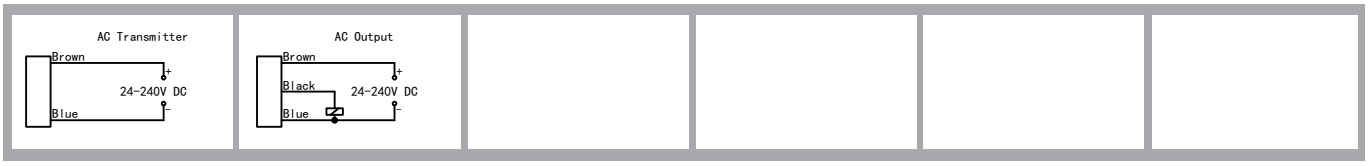
Through-beam sensors

Through-beam photoelectric sensors has independent transmitters and receivers,structure two are separated from each other,the emitter(E)directly transmitted to the receiver(R).At the time of installation,must be bothaligned establish light path. No matter any objectblocking the light,the voltage of the receiver drops,switch changes.

Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	50Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	PVC cable/2m;3*0.35mm²
Accessories	Accessories	NO
	(to be ordered separately)	

Wiring

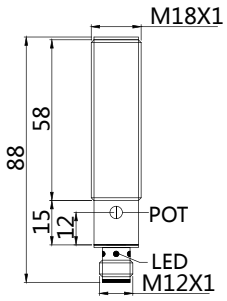


Features:

- Through-beam,Emitter/receiver set,AC 3-wire discrete output;
- Cable & connector versions;
- M18*1mm,plastic/Brass ,nickel-plated housing;
- VDE safety class:III;
- Ingress protection:IP66

CE

Dimensioned drawing



Model No.

Housing material	PBT	Brass, nickel-plated
Transmitter	FM18-L15MD-P54S12	FM18-L15MD-C54S12
Light/Dark-on	FM18-L15MA-P14S12	FM18-L15MA-C14S12
Light/Dark-on	FM18-L15MA-P24S12	FM18-L15MA-C24S12

Background suppression

Through-beam sensors

Through-beam photoelectric sensors has independent transmitters and receivers,structure two are separated from each other,the emitter(E)directly transmitted to the receiver(R).At the time of installation,must be bothaligned establish light path. No matter any objectblocking the light,the voltage of the receiver drops,switch changes.

Technical data

Electrical data	Operating voltage	24-240V AC
	Switching frequency	50Hz
	Light type	Infrared light 880nm
	Response time	<5ms
	Load current	300mA
	Power-up delay	<300ms
	Adjustment	Single-turn protentiometer
Environment	Light immunity	<5000Lux.
	Ambient temperature	-25...55℃
	Ambient humidity	35-85%
Mechanical data	Housing material	Brass,nickel-plated/PBT
	Lens material	PMMA
	Operating indicator	Yellow
Electrical connection	Connectors	M12 connector
Accessories	Accessories	B12-4GV2/B12-4WV2
	(to be ordered separately)	

Wiring